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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/645,422	08/21/2003	Takao Yamaguchi	MDA-3184US1 8868	
23122 7590 02/11/2008 RATNERPRESTIA		EXAMINER		
P O BOX 980			PATEL, CHANDRAHAS B	
VALLEY FORGE, PA 19482-0980			ART UNIT	PAPER NUMBER
			2616	
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•			MAIL DATE	DELIVERY MODE
			02/11/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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		Application No.	Applicant(s)			
Office Action Summary		10/645,422	YAMAGUCHI ET AL.			
		Examiner	Art Unit			
		Chandrahas Patel	2616			
Period fo	The MAILING DATE of this communication app or Reply	lears on the cover sheet with the c	correspondence address			
A SH WHIC - Exte after - If NC - Failu Any	CORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAISSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 29 No	ovember 2007.				
2a) <u></u> □	This action is FINAL . 2b)⊠ This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
4)🖂	Claim(s) 1-42 is/are pending in the application.					
	4a) Of the above claim(s) 3-40 is/are withdrawn from consideration.					
·	5) Claim(s) is/are allowed.					
·	Claim(s) <u>1, 2, 41, 42</u> is/are rejected.					
=	Claim(s) is/are objected to.	u alastian varvivamant				
8)[_]	Claim(s) are subject to restriction and/or	r election requirement.				
Applicat	ion Papers					
9)[The specification is objected to by the Examine	r.				
10)	The drawing(s) filed on is/are: a) acce	epted or b) ☐ objected to by the	Examiner.			
	Applicant may not request that any objection to the	•				
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex					
Priority (under 35 U.S.C. § 119					
•	Acknowledgment is made of a claim for foreign All b) Some * c) None of:	priority under 35 U.S.C. § 119(a))-(d) or (f).			
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the prior	rity documents have been receive	ed in this National Stage			
	application from the International Bureau	, ,,,				
* (See the attached detailed Office action for a list	of the certified copies not receive	ed.			
Attachmer		—				
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D				
3) Infor	mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	5) Notice of Informal F 6) Other:				

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DETAILED ACTION

Response to Amendment

1. Applicant's arguments, see Pages 4 and 5, filed 11/29/2007, with respect to the rejection(s) of claim(s) 1 under 35 U.S.C. 102(b) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Peyrovian et al. (USPN 6,707,800).

Regarding claim 1, applicant states that Sawyer does not teach partially exchanging the bandwidth. Examiner agrees with this. However, upon further consideration following rejection is formed based on submitted amendments.

Claim Rejections - 35 USC § 103

- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sawyer (USPN 5,282,737) in view of Peyrovian et al. (USPN 6,707,800).

Regarding claim 1, Sawyer teaches a data relay processing method [Abstract] comprising the steps of, sending pieces of information from a plurality of respective terminals [Fig. 1, 16], including a piece of information on a schedule of usage of a transmission band [Col. 3, lines 63-67 – Col. 4, lines, 1-2], another piece of information of a schedule of the transmission band which is available to be assigned [Col. 3, lines 37-41], another piece of information on a schedule of a term where the transmission band is available to be partially assigned [Col. 3, lines 56-61], and holding each respective schedule of each respective terminal; based on the schedule of usage, the schedule of transmission band, the schedule of term, and the necessary

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communication price partially reserving or partially assigning the transmission band between the respective terminals [Fig. 1, 40, 42, 46, 44 hold information for each terminal as described in Col. 5, lines 6-28].

However, Sawyer does not teach partially assigning and partially exchanging the transmission band between the pluralities of respective terminals for maximizing the usage efficiency of the entire available transmission band based on the schedule of usage of the transmission band and the schedule of the transmission band which is available to be assigned as defined as a band reservation rule.

Peyrovian teaches teach partially assigning and partially exchanging the transmission band between the pluralities of respective terminals for maximizing the usage efficiency of the entire available transmission band based on the schedule of usage of the transmission band and the schedule of the transmission band which is available to be assigned as defined as a band reservation rule [Col. 7, lines 16-25].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to partially assign and exchange the transmission band between pluralities of terminals so that bandwidth capacity can be utilized efficiently [Col. 7, lines 16-25].

4. Claims 2, 41, 42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sawyer (USPN 5,282,737) in view of Peyrovian et al. (USPN 6,707,800) as applied to claim 1 above, and further in view of Iwata (USPN 5,933,425).

Regarding claim 2, the references teach a method as discussed in rejection of claim 1.

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However, the references do not teach based on history information of the past processing record with respect to processes of partially assigning or partially exchanging of the transmission band between respective terminals and based on information with respect to transmission band, the transmission band is partially assigned or partially exchanged.

Iwata teaches based on history information of the past processing record with respect to processes of partially assigning or partially exchanging of the transmission band between respective terminals and based on information with respect to transmission band, the transmission band is partially assigned or partially exchanged [Col. 5, lines 38-59, Path A-C-D-E is selected where needed transmission band is only 20 Mbps and A-C is at 50 Mbps, D-E and C-D are at 25 Mbps therefore using only 20 Mbps will partially use the bandwidth of links A-C, C-D and D-E].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to assign transmission band based on history information so that specified QOS parameter can be satisfied [Col. 5, lines 23-29].

Regarding claim 41, the references teach a method as discussed in rejection of claim 1.

However, the references do not teach the information sent from each terminal is stored in respective terminals; and the transmission band available to be assigned, defined by the piece of information from one terminal on a schedule of the transmission band which is available to be assigned, is assigned to or exchanged with an other terminal based on the information stored in respective terminals, thereby connecting the one terminal and the other terminal to a server.

Iwata teaches the information sent from each terminal is stored in respective terminals; and the transmission band available to be assigned, defined by the piece of information from one

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terminal on a schedule of the transmission band which is available to be assigned, is assigned to or exchanged with an other terminal based on the information stored in respective terminals, thereby connecting the one terminal and the other terminal to a server [Col. 1, lines 50-65].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to store information in each terminal and assign transmission band based on information stored in the terminal so that user-specified QOS can be met with short connections establishment delay [Col. 1, lines 43-46].

Regarding claim 42, the references teach a method as discussed in rejection of claim 1.

However, the references do not teach the information sent from each terminal is stored in respective terminals; during the term defined by the piece of information from one terminal on a schedule of a term where a transmission band is available to be assigned or exchanged, the transmission band available to be assigned, defined by the piece of information from the one terminal on a schedule of the transmission band which is available to be assigned, is assigned to or exchanged with an other terminal based on the information stored in respective terminals, thereby connecting the one terminal and the other terminal to a server during the term defined by the piece of information of the one terminal on the schedule of the term where the transmission band is available to be assigned or exchanged.

Iwata teaches the information sent from each terminal is stored in respective terminals; during the term defined by the piece of information from one terminal on a schedule of a term where a transmission band is available to be assigned or exchanged, the transmission band available to be assigned, defined by the piece of information from the one terminal on a schedule of the transmission band which is available to be assigned, is assigned to or exchanged with an

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other terminal based on the information stored in respective terminals, thereby connecting the one terminal and the other terminal to a server during the term defined by the piece of information of the one terminal on the schedule of the term where the transmission band is available to be assigned or exchanged [Col. 1, lines 50-65].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to store information in each terminal and assign transmission band based on information stored in the terminal so that user-specified QOS can be met with short connections establishment delay [Col. 1, lines 43-46].

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chandrahas Patel whose telephone number is 571-270-1211. The examiner can normally be reached on Monday through Thursday 7:30 to 17:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Ngo can be reached on 571-272-3139. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

CBP

RICKY Q. NGO SUPERVISORY PATENT EXAMINER